https://abcmws.com/about-us/

2026 TAB Submittal Sheets

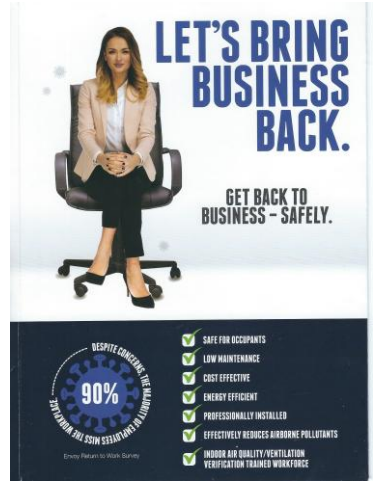
For ABC Midwest Solutions, LLC

Please review this document and use it as a Submittal. It should cover all the requirement your customers are requesting from us to prove our abilities and background.

Company Qualification and Personnel - Proof of Certifications

Equipment and Instrumentation - Calibration records for all our test instruments

Procedures and Ethical Requirements – Detailed methods for testing and balancing HVAC systems to meet design specifications and a statement that we adhere to a strict code of ethics, reporting the exact data without manipulation, even the deficiencies.



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ABC MIDWEST SOLUTIONS LLC.

TESTING, ADJUSTING AND BALANCING BUREAU "THE PROFESSIONAL'S CHOICE"®

ANAB ANSI National Accreditation Board ACCREDITED ISO/IEC 17024 PERSONNEL CERTIFICATION BODY

https://www.tabbcertified.org/industry-involvement/

Internet Hyperlink to our website with a CRB Video explaining the General Layout Template

Company Qualification and Personnel

TABB Certification – Most difficult in the industry to achieve

https://abcmws.com/about-us/

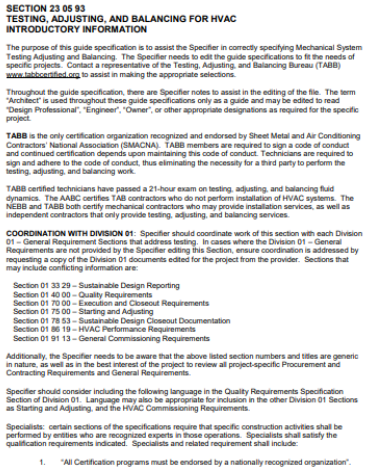
"TABB Certification is the most difficult Testing and Balancing Certification to Achieve in 2026!"

TABB is your assurance that HVAC systems operate at the highest standards of energy efficiency, ventilation effectiveness, indoor air quality and comfort in a healthy and green indoor environment.

https://www.tabbcertified.org/wp-content/uploads/2018/01/23_05_93.pdf

"Chris Braun passed on his first attempt!"

A. 2021, 2024, 2026 - TABB Certified
B. 38 years to testing to NEBB standards on HVACR Systems
C. 2021 – 2026 - Local 18 TABB Instructor
D. 15 Years - UW Madison Field Engineer w/ FPM
E. 2 Years - ALNOR INSTRUMENTS ENGINEER
F. 5 Years - AMCA Senior Testing Technician
   i. AMCA – 500-D
   ii. AMCA – 500-L
   iii. AMCA - 500-WD
   iv. AMCA – 210-95
   v. AMCA – 300 Sound Tests
   vi. AMCA – 300 – Louver Testing
   vii. AMCA - Wind Tunnel Construction



SECTION 23 05 93
TESTING, ADJUSTING, AND BALANCING FOR HVAC
INTRODUCTORY INFORMATION

The purpose of this guide specification is to assist the Specifier in correctly specifying Mechanical System Testing Adjusting and Balancing. The Specifier needs to edit the guide specifications to fit the needs of specific projects. Contact a representative of the Testing, Adjusting, and Balancing Bureau (TABB) www.tabbcertified.org to assist in making the appropriate selections.

Throughout the guide specification, there are Specifier notes to assist in the editing of the file. The term "Architect" is used throughout these guide specifications only as a guide and may be edited to read "Design Professional", "Engineer", "Owner", or other appropriate designations as required for the specific project.

TABB is the only certification organization recognized and endorsed by Sheet Metal and Air Conditioning Contractors' National Association (SMACNA). TABB members are required to sign a code of conduct and continued certification depends upon maintaining this code of conduct. Technicians are required to sign and adhere to the code of conduct, thus eliminating the necessity for a third party to perform the testing, adjusting, and balancing work.

TABB certified technicians have passed a 21-hour exam on testing, adjusting, and balancing fluid dynamics. The AABC certifies TAB contractors who do not perform installation of HVAC systems. The NEBB and TABB both certify mechanical contractors who may provide installation services, as well as independent contractors that only provide testing, adjusting, and balancing services.

COORDINATION WITH DIVISION 01: Specifier should coordinate work of this section with each Division 01 – General Requirement Sections that address testing. In cases where the Division 01 – General Requirements are not provided by the Specifier editing this Section, ensure coordination is addressed by requesting a copy of the Division 01 documents edited for the project from the provider. Sections that may include conflicting information are:

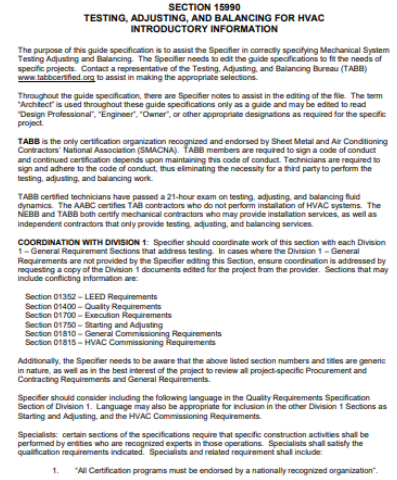
Section 01 33 29 – Sustainable Design Reporting
Section 01 40 00 – Quality Requirements
Section 01 70 00 – Execution and Closeout Requirements
Section 01 75 00 – Starting and Adjusting
Section 01 78 53 – Sustainable Design Closeout Documentation
Section 01 86 19 – HVAC Performance Requirements
Section 01 91 13 – General Commissioning Requirements

Additionally, the Specifier needs to be aware that the above listed section numbers and titles are generic in nature, as well as in the best interest of the project to review all project-specific Procurement and Contracting Requirements and General Requirements.

Specifier should consider including the following language in the Quality Requirements Specification Section of Division 01. Language may also be appropriate for inclusion in the other Division 01 Sections as Starting and Adjusting, and the HVAC Commissioning Requirements.

Specialists: certain sections of the specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy the qualification requirements indicated. Specialists and related requirement shall include:

1. "All Certification programs must be endorsed by a nationally recognized organization".



SECTION 15990
TESTING, ADJUSTING, AND BALANCING FOR HVAC
INTRODUCTORY INFORMATION

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COORDINATION WITH DIVISION 1: Specifier should coordinate work of this section with each Division 1 – General Requirement Sections that address testing. In cases where the Division 1 – General Requirements are not provided by the Specifier editing this Section, ensure coordination is addressed by requesting a copy of the Division 1 documents edited for the project from the provider. Sections that may include conflicting information are:

Section 01352 – LEED Requirements
Section 01400 – Quality Requirements
Section 01700 – Execution Requirements
Section 01750 – Starting and Adjusting
Section 01810 – General Commissioning Requirements
Section 01815 – HVAC Commissioning Requirements

Additionally, the Specifier needs to be aware that the above listed section numbers and titles are generic in nature, as well as in the best interest of the project to review all project-specific Procurement and Contracting Requirements and General Requirements.

Specifier should consider including the following language in the Quality Requirements Specification Section of Division 1. Language may also be appropriate for inclusion in the other Division 1 Sections as Starting and Adjusting, and the HVAC Commissioning Requirements.

Specialists: certain sections of the specifications require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy the qualification requirements indicated. Specialists and related requirement shall include:

1. "All Certification programs must be endorsed by a nationally recognized organization".

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Company Qualification and Personnel

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1. Professional Reports
2. Indoor Air Quantity Investigations
3. HVACR Controls Analysis and Tuning Specialist
4. Building Energy and Pressurization Investigations– Older and State-of-the-art Systems
   - A. Most DDC Control Issues -PID and PD Tunning
   - B. Electric Damper Motors
   - C. Electronic Damper Motors
   - D. Mixed Air Static Pressure Controls
   - E. Freeze Stat Issues
   - F. Low Limit Protection Circuits
   - G. Air Silencer Solutions
   - H. Air Blender Solutions
5. Hot and Chilled Water Systems
   - A. Hot and Chilled Water Pumps
   - B. Water Flow Measuring Station Issues
   - C. Basic and Advanced Heat Transfer issues
   - D. Air-to-Air Heat Exchangers
   - E. Heat Reclaim wheel
   - F. Air-to-Water Heat Exchangers
   - G. Water to Water Heat Exchangers
   - H. Refrigeration to Water Heat Exch.
   - I. Condensate Towers
6. Heat Reclaim System Analysis
7. Identify faulty Belt and Sheave Management
8. Identify Old or Faulty controls Specialist
   - A. Pneumatic Controls
   - B. Thermostats
   - C. Velocity Controllers
   - D. Damper Motors
   - E. Damper Pilots
   - F. Receivers-Controllers
   - G. Velocity Controllers
9. Air Filtration Specialist
10. System Pressure and Leakage Specialist
11. System Static Pressure Reduction Specialist
12. HVACR Noise and Vibration Specialist

Equipment and Instrumentation

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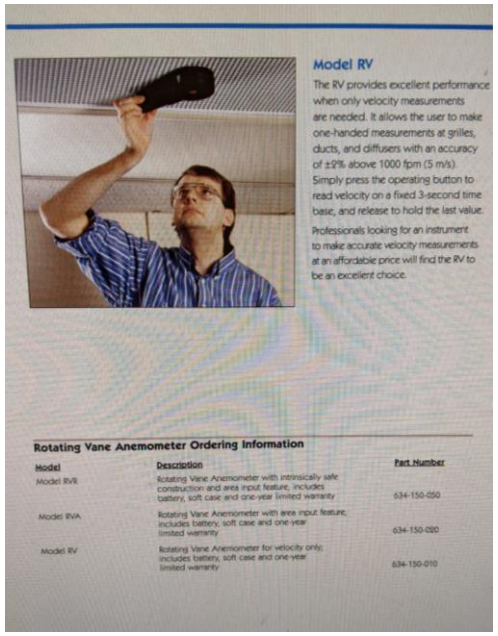

amca CERTIFIED RATINGS
SOUND AND AIR PERFORMANCE
AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

ABC Midwest Solutions - Instrumentation Summary Sheet

	Manufacture	Model Number	Serial Number	Range	Applicable
Air Meters	Dwyer	Liquid Manometer	None	0 - 10" Inches of Differential Pressure	To be determined
Air Velocity	Shortridge	ADM - 880 C	M15090	30,000 feet per minute	To be determined
	TSI - VelociCalc	TSI - 8386A	99100003	12 - 9,000 feet per minute	To be determined
Air Volume	Shortridge	Flowhood Base	None	25 to 2000 CFM	To be determined
Differential Pressure Meters	Dwyer	Magnahelic	None	0 - 0.25"	To be determined
	Dwyer	Magnahelic	None	0 - 1.00"	To be determined
	Dwyer	Magnahelic	None	0 - 2.00"	To be determined
	Dwyer	Magnahelic	None	0 - 4.00"	To be determined
	Dwyer	Magnahelic	None	0 - 5.00"	To be determined
Temperature Meters	Alnor	Digitemp - 6629	T-116905	Single Input - -100 F to 600 F	To be determined
	Alnor	Digitemp - 6629	None	Single Input - -100 F to 600 F	To be determined
	Alnor	Digitemp - 6630	None	Dual Input - -100 F to 600 F	To be determined
Voltage Meter	Fluke	73 - III	81360135	0 - 600 Volt	To be determined
	Fluke	73 - III	None	0 - 600 Volt	To be determined
Current Meters	Fluke	RS - 1	None	0 - 200 Amps	To be determined
	Amprobe	PR - 6	None	0- 120 Amps	To be determined
Water Flow Meters	Shortridge	ADM -4545	None	0 - 120 PSI	To be determined
Water Pressure Meters	TACO	DP - 12	None	0- 100 Inches of Differetial Pressure	To be determined
Ultrasonic Water Meters	FUJI	SDP - 1	3455	1.5 GPM to 250 GPM	To be determined
Refrigerant Gas Detector Meters	ELITECH (Halogen Leak Detector)	WJL - 6000	X001R8OM4F	HFC's Detects High Accuracy	To be determined

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Procedures and Ethical Requirement

3.02 TAB PLAN

Greetings everyone,

After 40 years of working on, and setting up, HVAC systems, I am pleased to present a "TAB PLAN" for your perusal.

We will be following our standard TABB protocol throughout the entire project.

Prior to this letter, I copied and pasted the job specifications in the report. This specification looks like it has an extremely tough requirement; however, we feel we will be able to easily conform and satisfy all its requirements.

I have included both written instruments prior to this note to ensure that both the letter and spirit of the contract are met and any disputes can be resolved easily; however, I don't feel there will be any.

The plan I was provided with does not have a schedule of the equipment so to create a bullet pointed, line-by-line description the spec calls for is not going to happen in this letter. What I can tell you is that I am including is our current blank Testing and Balancing form we intend to use to both document our work and keep track of our time on the project as the construction is completed and our services are required.

After reviewing the tolerances required, I do not see any reason why we should be outside of those values. If there are any issues, we will be bringing them up to the installation contractor, and if necessary, the design engineer.

We have worked with 1901 Mechanical Contractor in the past and have had great success in both discovering issues and solving them to complete the equipment, and system performances.

We approach all of our systems the same way. We investigate the main equipment, measure and adjust our flow rates and then distribute accordingly.

Once the downstream items are set up, we go back to the units, and in this case, we will have to perform some filter loading to prove the system performs with and without loaded filters. It is our intention to NOT load the entire filter section greater that 1.00" of water column at this point in time.

We also pay close attention to the building static pressure, both before we make adjustment and afterwards.

We also noticed that this project calls for cascading room pressurization issues. We did not see any room pressure monitors in the spec; however, if they are there, we will address them as we discover them and make sure, they work fine.

Our procedure is, as always, to address problems when they arise and confront them to the appropriate parties so to get them addressed and resolved quickly and correctly.

On a closing note, there are 42 animal areas at my last place of employment, along with 2,400 fume hoods. I personally performed over 7,000 work orders in my 15 years of working there as a Testing and Balancing Technician and had only four (4) call backs. None of this project is more difficult, or challenging, that anything I have experienced in the past so I am confident that by both hiring 1901 Mechanical and us, ABC Midwest Solution, LLC, you are going to get the best product for you customer available in the market today.

Please visit our website if you have any other comments or questions.

www.abcmws.com

Thank you.

Christopher Braun
Director of Technical Services
Christopher.braun@abcmws.com
1-608-640-1550